KRYNSKA, Joanna; CZERWINSKI, Wieslaw; FUMIAN, Roman; KLAWE, Zdzislaw

Two cases of cardial achalasia treated by surgery. Wiad. lek. 18 no.3:247-251 F 1 '65

1. Z I Kliniki Chorob Wewnetrznych Studium Doskonalenia Lekarzy (Kierownik: prof. r. med. W. Hartwig) ; z II Oddzialu Chirurgicznego Szpitala Bielanskiego IKierownik:doc. dr. med. W. Wiechno) i z Zakladu Radiologii Szpitala Bielanskiego (Kierownik: dr. med. J. Bowkiewicz).

FURMAN, R.V.

Effect of various additions and local pigments on the quality of silicate brick. R. V. Furman and L. M. Khavkin. *Sbornik Trudov Respublik. Nauch. Issledovatel. Inst. Mestnykh Stroitel. Material.* 1953, No. 5, 165–78; *Referat. Zhur., Khim.* 1954, No. 46309.—Abundantly available coloring matter, such as boiler cinders, broken red brick, clay, and ochre were successfully used for coloring silicate brick. The pigment ground together with the lime in ball mills imparted a uniform color to the brick. To prevent efflorescence on the brick the mix should be of min. activity which insures the required strength of the brick. The grain-size compn. of the batch should insure the highest possible d. for which approx. 30% of fine sand must be added. Ochre and ground boiler cinders may be used up to 2–3% of the wt. of the batch; higher content lowers the strength of the brick.

M. Hoseh

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(1)

FURMAN, R. Ya.

USSR/ Engineering - Ceramics separator

Card 1/1 Pub. 104 - 11/14

Authors : Furman, R. Ya.

Title : Electromagnetic separator of the horseshoe type for enriching tripoli

Periodical : Stek. i ker. 11/3, page 28, Nov 1954

Abstract : A description is given of an electromagnetic device using 540-volt DC, which is placed in the hopper of a machine for preparing ceramic materials. The electromagnetic device separates iron and ferrous compounds from the ceramic material. Illustrations.

Institution: .....

Submitted: .....

LAPAN, A.P.; LARINA, V.A.; PISANOVA, L.I.; FURMAN, S.; YUL'KEVICH, L.P.

Phenols from waste waters of semicoking and ot[redacted]. Izv. Fiz.-khim. nauch.-issl. inst. [redacted] un. 4 no.2:233-254 '59. (MIRA 16:8)

(Industrial wastes--Analysis) (Phenols)

KHEYFETS, David Samuilovich; FURMAN, S.I., otv. red.; KOKORIN, Yu.I., red.; MARKOCH, K.G., tekhn. red.

["Temp-6" and "Temp-7" television receivers] Televizory "TEMP-6" i "TEMP-7." Moskva, Sviaz'izdat, 1963. 80 p. (Biblioteka "Televizionnyi priem" no.10) (MIRA 17:3)

ACC NR: AP6031961 SOURCE CODE: UR/0051/66/021/003/0357/0364

AUTHOR: Furman, Sh. A.

ORG: none

TITLE: Synthesis of neutral antireflection coatings. II. Calculation of coatings for blooming of materials with a refractive index n ≥ 2 in a wide spectral range

SOURCE: Optika i spektroskopiya, v. 21, no. 3, 1966, 357-364

TOPIC TAGS: reflectivity, material reflectivity, reflection factor, blooming, antireflection coating, glass reflectivity, crystal reflectivity, semiconductor material reflectivity, REFRACTIVE INDEX, SPECIALIZED COATING

ABSTRACT: The author applies previous theoretical findings (Optika i spektroskopiya, v. 21, 1966, p. 82) to the calculation of two-, three- and four-layer anti-reflection coatings. The refractive indexes of neutral non-absorbing coatings of equal optical thickness are considered. The method is first applied to a substrate of oxygen-free glass with a refractive index of 2.4 and then is expanded to various index values from 2 to 4. In the case of two-layer coatings, the method yields two solutions: two pairs of coatings, which are equal in total effect but have different refractive indexes for each coating. In the case of three-layer coatings, four such equal solutions exist. For four-layer coatings, four combinations of coating material indexes are available for any refractive index of the substrate. The analysis shows the

Card 1/2 UDC: 535.391.5.001.1

ACC NR: AP6031961

extent to which the number of coatings affects the angle of coating effectiveness, the reduction of reflectivity, and the extension of spectral range. The last effect is illustrated by a graph presenting the reflectivity as a function of wavelength for one-, two-, three-, and four-layer coatings on a germanium substrate with a refractive index of 4. The author will consider the practical realization of calculated coatings in a forthcoming article. Orig. art. has: 7 figures, 7 tables, and 11 formulas. [FP]

SUB CODE: 20/ SUBM DATE: 25Mar65/ ORIG REF: 001/ ATD PRESS: 5089

Card 2/2

ACC NR: AP6033443 SOURCE CODE: UR/0051/66/021/004/0503/0508

AUTHOR: Furman, Sh. A.

ORG: none

TITLE: Synthesis of neutral antireflection coatings. III. Calculation of coatings that make articles of materials with refractive index $n \leq 2$ translucent in a wide spectral region

SOURCE: Optika i spektroskopiya, v. 21, no. 4, 1966, 503-508

TOPIC TAGS: optic coating, light reflection, refractive index, light transmission

ABSTRACT: The first parts of the article were published in Opt. i spektr. v. 21, pp. 82 and 357, 1966. The theory developed in the earlier parts is used to calculate the refractive indices of coatings consisting of non-absorbing layers of equal optical thickness. These coatings make it possible to reduce greatly reflection from surfaces of materials having refractive indices $n = 1.5 - 2.0$, in a region with a wavelength ratio 3:1. Tables are presented showing the refractive indices of the components of two-layer achromatic antireflection coatings as functions of the refractive index of the substrate for different ratios of the reflection to the transmission. Plots of the reflection coefficient for coatings consisting of 2, 3, and 4 layers are given as functions of a quantity $\alpha$ defined in the earlier papers. Various methods of obtaining coating films from mixtures of substances (evaporation before and after mixing, coating with mixtures of solutions) are discussed. The optimum coatings for

Card 1/2 UDC: 535.391.5.01

ACC NR: AP6033443

the case of germanium are determined by way of an example. Orig. art. has: 6 figures, 3 formulas, and 5 tables.

SUB CODE: 20/ SUBM DATE: 25Mar65/ ORIG REF: 004/ OTH REF: 008

Card 2/2

ACC NR: AP6036694 SOURCE CODE: UR/0237/66/000/011/0035/0040

AUTHOR: Furman, Sh. A. (Candidate of sciences)

ORG: none

TITLE: Wideband bleachable coatings

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 11, 1966, 35-40

TOPIC TAGS: optic coating, specialized coating, light reflection, refractive index, glass

ABSTRACT: An investigation was made of coatings which make it possible, over a wide spectral range, to reduce considerably the reflection of light from the surface of glasses, crystals, and semiconducting materials having refraction indices from 1.5 to 4.0. The investigation was conducted under the assumption that the light impinges on the coating perpendicularly to its surface. The coatings were bounded on one side by the atmosphere ($n_1 = 1$) and on the other side by a semiinfinite non-absorbing backing with a refraction index $n_{m+2}$ where $n_2, n_3, \ldots n_{m+1}$ are the refraction indices of layers. The refraction indices of neutral bleachable coatings, whose calculation was based on the theory of synthesis of spectral characteristics, are given. These coatings make it possible to reduce the reflection from the surface of glasses, crystals, and semiconductive materials with refraction indices between 2 and 4 over a range of wavelengths linked by the ratio 3:1 for two-layer coatings and 5:1 for three- and four-layer coatings. In materials with a refraction index n = 1.5—2.0,

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ACC NR: AP6036694

the region of low refraction is limited by the length of waves linked by the ratio 3:1. The refraction indices of most of the investigated bleachable coatings were in the range from 1.31 to 3.30. The main difficulty in the practical realization of such coatings is that they must possess one of the intermediary refraction indices within the range from 1.31 to 3.30 and be transparent in the necessary spectral range. Presently, this is possible by producing the films from a mixture of materials with different refraction indices. Orig. art. has: 5 formulas, 5 figures, and 7 tables.

[WA-14]

SUB CODE: 20/ SUBM DATE: 28Jun65/ ORIG REF: 004/ OTH REF: 008/

Card 2/2

FURMAN, Stanislaw, mgr inz.

"Concept of heat in its historical development" by Bohdan Stefanowski. Reviewed by Stanislaw Furman. Problemy 20 no. 6: 383 '64.

FURMAN, Stanislaw

"Pioneers of space traveling" by Hans Hartl, Herman Oberth. Reviewed by Stanislaw Furman. Kwart hist nauki i tech 8 no.1: 114-115 '63.

SAMOYLOV, G.P.; FURMAN, S.L.

Universal stand for testing kinescopes. Vest. sviazi 24 no.2: 8-10 F '64. (MIRA 17:4)

1. Glavnyy inzh. Televizionnogo tresta Ministerstva svyazi SSSR (for Samoylov). 2. Nachal'nik Tekhnicheskogo otdela TSentral'nogo proizvodstvenno-eksperimental'nogo televizionnogo predpriyatiya Televizionnogo tresta Ministerstva svyazi SSSR (for Furman).

DUBINSKIY, Leonid Mikhaylovich; FURMAN, S.L., otv. red.; FUFAYEVA, M.N., red.

[Power supply of television receivers] Bloki pitaniia televizionnykh priemnikov. Moskva, Sviaz', 1964. 93 p. (Biblioteka "Televizionnyi priem, no.15) (MIRA 17:12)

SAMOYLOV, G.P., otv. red.; FURMAN, S.L., otv. red.; FUFAYEVA, M.N., red.

[Television receivers; a reference album] Televizionnye priemniki; al'bom spravochnik. Moskva, Sviaz', 1964. 71 p. (Biblioteka "Televizionnyi priem," no.16)
(MIRA 18:4)

SAMOYLOV, G.P.; FURMAN, S.L.

Stand for checking standardized wound components. Vest. sviazi 24 no.8:7-9 Ag '64. (MIRA 17:10)

1. Glavnyy inzh. televizionnogo tresta Ministerstva svyazi SSSR (for Samoylov). 2. Nachal'nik tekhnicheskogo otdela TSentral'nogo proizvodstvenno-eksperimental'nogo televizionnogo predpriyatiya televizionnogo tresta (for Furman).

SHENDEROVICH, Abram Movshevich; FURMAN, S.I., otv. red.; KONDRAT'YEVA, V.P., red.

[Audio signal amplifiers of television receivers] Usiliteli signalov zvukovogo soprovozhdeniia v televizionnom priemnike. Moskva, Sviaz', 1965. 78 p. (Biblioteka "Televizionnyi priem, no.22) (MIRA 18:10)

FURMAN, S.P.; GRIBIN, G.P., otv.red.; PEVZNER, A.S., zav.red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Uniform time and pay standards for construction, assembly, and repair operations in 1960] Edinye normy i rastsenki na stroitel'nye, montazhnye i remontno-stroitel'nye raboty, 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Sbornik 29. [Assembling the crushing, milling, grading, and processing equipment] Montazh drobil'no-razmol'nogo oborudovaniia i oborudovaniia dlia sortirovki i obogashcheniia. No.1. [Crushing and milling equipment] Drobil'no-razmol'noe oborudovanie. 1960. 46 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Normativno-issledovatel'skaya stantsiya No.15 kombinata "Stalinshakhtostroy" Stalinskogo sovnarkhoza (for Furman).
(Wages) (Crushing machinery)

ACC NR: AP6025956 SOURCE CODE: UR/0051/66/021/001/0082/0090

AUTHOR: Furman, Sh. A.

ORG: none

TITLE: Synthesis of neutral transparent coatings. I. Theoretical principles of the synthesis of spectral characteristics

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 82-90

TOPIC TAGS: refractive index, optic coating, approximation method

ABSTRACT: Nonabsorbing systems consisting of many layers of equal optical thickness are examined. The synthesis in this case depends on the determination of the refractive indexes of the coatings, which makes it possible to optimally approach the given curve in the desired region of the spectrum. A detailed discussion is given of the method used to make the approximate calculations and the steps to be taken to obtain the best approximation of the desired curve. The solution of the system of quadratic equations needed for the calculations is derived and the method used to calculate the refractive indexes of the coatings is given. The calculation of neutral transparent coatings in terms of the given theory will be given in the next paper. Orig. art. has: 37 formulas.

SUB CODE: 20/ SUBM DATE: 25Mar65/ ORIG REF: 002/ OTH REF: 001

UDC: 535.391.5

Card 1/1

FURMAN, T.I.

29187 Ratsionalizirovat' zamet zakidnykh nevodov. Ryb. Khoz-vo, 1949, No. 9 S. 10-11

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskov, 1949

FURMAN, T.I.

Concerning Kh.K.Ulanov's article "Rise and flow phenomena and the water temperature anomaly at the east coast of the Middle Caspian." Okeanologiia 3 no.6:1106-1108 '63. (MIRA 17:4)

S/169/62/000/012/078/095
D228/D307

AUTHOR: Furman, T.I.

TITLE: Water temperature of deep layers of the Middle Caspian

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 20-21, abstract 12V143 (Izv. Ak AzerbSSR, Ser. geol.-geogr. n. i nefti, no. 1, 1962, 125-134 (summary in Azerb))

TEXT: The data of observations in the last 20-30 years were used. On the profile Divichi-Kenderli observations have been conducted since 1935. Operations on the profile Derbent-Cape Peschany were carried out in 1956. The data of 5 stations (3 on the 1st profile and 2 on the 2nd), at which 77 measurements were made in all, were used to characterize benthonic waters. The measurement depth was 470-780 m (550-600 m on an average); the distances of the measurements from the bottom were 2-75 m (the average being about 18 m). According to data for the last 2-3 years a temperature ranging from 3.80 to 5.35° (an average of 4.73°) is, on the whole,

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D228/D307

Water temperature ...

characteristic of the waters under consideration; the position of the boundary of waters with a temperature of about 5° varies from 170 to 590 m (about 350 m on an average). The maximum water temperature for the benthonic layer is 5.34-5.35°. Here a high temperature was usually observed in the cold season. At times the observed increase of temperatures near the bottom is not characteristic of the area.

[Abstracter's note: Complete translation]

Card 2/2

FURMAN, T.I.

Kh.K.Ulanov's article "Temperature anomalies of the water in the eastern part of the Middle Caspian." Meteor. i gidrol. no.9: 57-58 S '62. (MIRA 15:8)
(Caspian Sea—Ocean temperature) (Ulanov, Kh.K.)

FURMAN, T.I.

Streams in the Kyzyl-Burun fishery region and the calculation of seine floating. Izv. AN Azerb. SSR. Ser. geol-geog. nauk no.3:133-137 '65. (MIRA 18:9)

FURMAN, V.; VRSCAJ, V.; DEKLEVA, J.

Nier's metallic mass spectrometer, p. 2. ELEKTROTEHNISKI VESTNIK. (Institut za elektrisko gospodarstvo, Fakulteta za elektrotehniko in Institut za elektrozveze) Ljubljana. Vol. 23, no. 11/12, 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

FURMAN, V.B., student V kursa; MARTYNOV, M.V., dotsent, kand.tekhn.nauk

Investigation of a d.c. double-drive differential, traction engine. Nauch. rab. stud. GNSO MGI no.7:151-167 1959. (MIRA 14:5)
(Electric locomotives)
(Mine railroads)

GRANOVSKIY, B.S., kand. tekhn. nauk; FURMAN, V.B., inzh.; VULIS, N.L., inzh.

Built-in power cable for supplying power and regulating the operation of borer mechanisms in core drilling equipment for shafts. Shakht. stroi. 8 no.10:16-19 O '64. (MIRA 17:12)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo i shakhtnogo stroitel'stva.

LYU YUYAN' [Liu Yüan]; PYATOV, N.I.; SOLOV'YEV, V.G.; SILIN, I.N.; FURMAN, V.I.

Properties of strongly deformed nuclei. Zhur. eksp. i teor. fiz. 40 no.5:1503-1510 My '61. (MIRA 14:7)

1. Ob"yedinennyy institut yeadernykh issledovaniy.
(Nuclei, Atomic)

ZAKHAR'YEV, B.N.; PYATOV, N.I.; FURMAN, V.I.

Matrix elements of $\beta$-transitions. Zhur. eksp. i teor. fiz. 41 no.5:1669-1672 N '61. (MIRA 14:12)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Quantum theory) (Beta rays—Decay)

NEDVEDYUK, K.; SALATSKIY, V.I.; SIZOV, I.V.; FURMAN, V.I.; SARANTSEV, V.R., tekhn. red.

[Angular distributions of $\alpha$-particles and total cross sections for the reaction $C^{12}(t,\alpha_0)B^{11}$] Uglovye raspredeleniia $\alpha$ - chastits i polnye secheniia reaktsii $C^{12}(t,\alpha_0)B^{11}$. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 6 p. (MIRA 15:12)

(Alpha rays) (Nuclear reactions)

ACC NR: AP6019615 (A,N) SOURCE CODE: UR/0048/66/030/002/0255/0256

AUTHOR: Gridnev,K.A.; Krasnov,L.V.; Kukhtina, I.N.; Luk'yanov, V.K.; Nikitina, V.I.; Furman, V.I.

ORG: none

TITLE: Calculation of direct nuclear reactions by the distorted wave method/Report Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya.Seriya fizicheskaya, v. 30, no. 2, 1966, 255-256

TOPIC TAGS: nuclear reaction, mathematic method, ~~direct nuclear reaction, nuclear stripping reaction, distorted wave approximation~~, wave analyzer

ABSTRACT: The authors have employed an electronic computer to calculate differential cross sections for (d,p) reactions in the distorted wave approximation under the following simplifying assumptions: 1) the range of the nuclear forces is zero (the interaction potential is a delta-function) and 2) there is no spin-orbital coupling The calculated angular distribution of protons from the $_{}^{}Fe^{56}$ (d,p)$Fe^{57}$ reaction with an incident deuteron energy of6.6MeV is compared with the angular distribution calculated in the plane wave approximation (Butler's theory) and with experimental data of V.P.Bochin, K.I.Zhorebtsova, V.S.Zolotarev, V.A.Komarov, L.V.Krasnov,

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ACC NR: AP6019616

V.F.Litvin, Yu.A.Nemilov, and B.G.Novatskiy (Vestn. Leningr.un-ta, No.22 78 (1963)). The experimental data are in much better agreement with the distorted wave calculations than with the plane wave calculations. The authors intend to publish a detailed description of their calculations and expect to relax the simplifying assumptions 1) and 2) in future work. Orig. art. has: 2 formulas and 1 figure.

SUB CODE: 20 SUBM DATE: 00 ORIG. REF: 001 OTH REF: 002

Card 2/2 LC

KUHNIEWICZ-WITCZAKOWA, Romana; FURMAN, Wlodzimierz

Analysis of methods in functional examination of foot in normal men. Polski tygod. lek. 14 no.13:562-566 30 Mar 59.

1. (Z Zakladu Antropologii: kier. doc. A. Godlewski i z Zaklady Rentgenologicznego: kier. doc. W. Czarnocka-Karpinska Akademii Wychowania Fizycznego w Warszawie) Adres: Wanszawa, ul Marymoncka 90. A.W.F.

(FOOT
anat. & funct. tests (Pol))

BOWKIEWICZ, Janusz; FURMAN, Wlodzimierz; SLONIEWICZ, Witold; TUBIELEWICZ, Jaroslaw; ZALUSKA, Jozef

Lymphography with the use of oily contrast media. Pol. przegl. radiol. 27 no.6:493-499 '63.

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie Kierownik: dr med. J. Bowkiewicz Z Oddzialu Chirurgii Ogolnej Miejskiego Szpitala Bielanskiego Ordynator: doc. dr med. W. Wiechno.
(LYMPHOGRAPHY) (CONTRAST MEDIA)

BOKIEMICZ, Janusz; FURMAN, Włodzimierz; [illegible], Józef

Radiological anatomy of the [illegible] cystic.
Pol. przegl. radiol. 28 no.5:389-[illegible] 3-O '64

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik dr. med. J. Bokiemicz) i z Oddziału Chirurgii Ogólnej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik doc. dr. med. W. [illegible]).

BOJKIEWICZ, Janusz; BULSKA, Malgorzata; [illegible], Wlodzimierz; KOBUSZEWSKA-FARYNOWA, Maria; KUCHARCZYK, Kazimierz; SZUSKA, Halina; ZALUSKA, Jozef

Lymphography in cases of early cancer of the cervix uteri (preliminary communication). Pol. przegl. radiol. 28 no.5:395-400 S-O '64

1. Pracowni Rentgenodiagnostycznej Szpitala Bielanskiego w Warszawie (Kierownik: dr. med. J. Bojkiewicz); z Katedry Poloznictwa i Ginekologii Studium Doskonalenia Lekarzy w Warszawie (Kierownik: prof. dr. med. M. Bulska) i z Oddzialu Chirurgii Ogolnej Szpitala Bielanskiego w Warszawie (Ordynator: doc. dr. med. W. Wiechno).

BOLK/SKILCZ, Janusz; FUREMAN, Wlodzimierz; ZALUSKA, Jozef

Adaptation of the bone table x-ray apparatus [illegible] for abdominal angiography. Pol. przegl. radiol. 28 no.5:491-494 [illegible] 64

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik: dr. med. J. Bukkiewicz).

FURMAN, Wlodzimierz

A rare case of esophageal foreign body. Pol. przegl. radiol. 28 no.4:335-337. Jl-Ag '64.

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik: dr med. J. Pawlewicz).

BOWKIEWICZ, Janusz; FURMAN, Wlodzimierz; ZALUSKA, Jozef

Multiscope 10. Pol. przegl. radiol. 28 no.4:381-382 Jl-Ag '64.

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kerownik: dr med. J. Bowkiewicz).

BOWKIEWICZ, Janusz; FURMAN, Wlodzimierz; ZALUSKA, Jozef

Remote control drum seriograph for arteriographic examination of extremities. Pol. przegl. radiol. 28 no.4:383-387 Jl-Ag '64.

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik: dr med. J. Bowkiewicz).

BOWKIEWICZ, Janusz; FURMAN, Wlodzimierz; ZAJUSKA, Jozef

The 4-compartment wall or mobile negatoscope. Pol. przegl. radiol. 29 no.3:349-351 My-Je '65.

1. Z Pracowni Rentgenodiagnostycznej Miejskiego Szpitala Bielanskiego w Warszawie (Kierownik: dr. med. J. Bowkiewicz).

PETROV, L.K., kand.tekhn.nauk; GRINSHTEYN, Kh.R., inzh.; FURMAN, Ya.A., inzh.

Production of agloporite from lean clayey rock in the White Russian S.S.R. Sbor.trud.VNIINSM no.6:136-150 '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut stroitel'nykh materialov Soveta narodnogo khozyaystva Belorusskoy SSR.
(White Russia--Clay)
(Aggregates (Building materials))

FURMAN, Yakov Borisovich; SUVOROV, I.K., redaktor; GOLYATKINA, A.G., redaktor izdatel'stva; ATTOPOVICH, M.K., tekhnicheskiy redaktor

[Assistant operators of shape mills] Podruchnyi val'tsovshchika sortovykh stanov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 220 p. (MLRA 10:1)
(Rolling mills)

FURMAN, Ya. B.

AUTHOR: BAKHTINOV,B.P., FURMAN,YA.B., SHTERNOV,M.M., PA - 2389
Metallurgical Combination of Magnitogorsk (Magnitogorskiy metallurgicheskiy kombinat).

TITLE: Book Review: CHEKMAREV,A.P. and MOSHKOVTSEV,P.A., "Wear of Rollers in Rolling Mills" ("Iznos prokatnykh valkov", Russian). Moscow-Charkov, Metallurgizdat, 1955, 147 pages, 89 illustrations.

PERIODICAL: Stal', 1957, Vol 17, Nr 1, pp 95 - 96 (U.S.S.R.).
Received: 5 / 1957 Reviewed: 5 / 1957

ABSTRACT: Of the 6 chapters of the book the first describes the bases of the theory of rolling and calibration, classification and methods of working the rollers as well as their mechanical properties and the factors influencing the wear of calibers. In the following 4 chapters the results of the investigations on wear of the rollers by the rolling of simple and sectional iron are given. The last chapter deals with modern methods of increasing the wear resistance of rollers. An advantage of the book is the simple method suggested, which adapts itself well to existing working conditions. As the most essential factors causing wear the following are given: gliding of the metal on the roller within the deformation zone, temperature conditions during the working process, forming of a movable intermediate layer, chemical composition of the rolled metal, quality of the rollers, and the applied method of blooming. Practical recommandations for form corrections of the caliber are

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"Wear of Rollers in Rolling Mills."

given.

In conclusion the reviewer refers to some deficiencies with respect to representation, i.e. to the too detailed description of experiments, the lack of camparison of the character of wear of individual calibers, the complicatedness of the method proposed for the correction of the rollers when rolling flat-bar steel, etc.

ASSOCIATION: Not given.
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress.

Card 2/2

ANDREYUK, L.V., inzh.-kalibrovshchik; FURMAN, Ya.B., inzh.-kalibrovshchik

Rolling of grooved spring steel. Metallurg 5 no.8:20-23 Ag '60. (MIRA 13:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolling(Metalwork)) (Springs(Mechanism))

SIRAZITDINOV, N.I., inzh.; Prinimali uchastiye: SHTERNOV, M.M., kand.tekhn. nauk; FURMAN, Ya.B., inzh.

Mastering the production of lightweight sections at the Magnitogorsk Metallurgical Plant. Stal' 20 no. 7:624-628 Jl '60. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy kombinat (for Sirazitdinov).
2. Starshiy kalibrovshchik Magnitogorskogo metallurgicheskogo kombinata (for Shternov).
(Magnitogorsk--Rolling (Metalwork)) (Girders)

FURMAN, Ya.B., inzh.

Testing slab grooving for angle bars on 300 MMK section rolling mills. Stal' 22 no.8:739-742 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolls (Iron mills))

L 51867-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(c)/EWA(1) Pc-4/ Pr-4/Peb/Pu-4 RPL GG/GS/RM

ACCESSION NR: AT5002665 S/0000/64/000/000/0103/0109

AUTHOR: Fomenko, A. S.; Kotorlenko, L. A. Abramova, T. M.; Dar'yeva, E. P.; Galina, A. A.; Furman, Ye. G.

TITLE: Participation of free radicals in the radiative oxidation of polycaprolactam

SOURCE: AN UkrSSR, Institut khimii vysokomolekulyarnykh soyedineniy. Sintez i fiziko-khimiya polimerov; sbornik statey po rezul'tatam nauchno-issledovatel'skikh rabot (Synthesis and physical chemistry of polymers; collection of articles on the results of scientific research work). Kiev, Naukova dumka, 1964, 103-109

TOPIC TAGS: polycaprolactam oxidation, gamma irradiated polymer, radiative oxidation, free radical, antioxidant, EPR spectrum, polymer film, hydroperoxide liberation

ABSTRACT: Variations in the electron paramagnetic resonance spectra from irradiated ($Co^{60}$, 30C, vacuum, $2 \cdot 10^4$ to $200 \cdot 10^4$ joule/kg) polycaprolactam films (from acetate solutions, $10-12 \cdot 10^{-6}$ m) in relation to temperature, radiation dose and atmospheric oxygen were analyzed in a study covering the behavior of free radicals, their participation in the radiative oxidation of a polymer and the inhibi-

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ACCESSION NR: AT5002665

tion of the latter process by di-β-naphthyl-p-phenylenediamine. Chromatographic analysis detected H, CO and 3% $CO_2$ in the gaseous products of the radiolytic decomposition of the polymer in either a vacuum or an oxygen environment. The mechanisms by which these constituents are liberated are described, and the authors define radiation-produced changes in viscosity and content of terminal amino groups. The authors conclude that the characteristics of primary radicals liberated during radiative oxidation are similar to those produced in vacuum radiolysis; they therefore deduce parallel patterns of conversion of liberated $RO_2$ radicals into hydroperoxides and carbonyl-containing compounds. Addition of 0.5 to 3% antioxidant significantly reduced the content of hydroperoxides and carbonyl-containing compounds accumulating during radiative oxidation. "The authors express gratitude to academician A. I. Brodskiy (AN UkrSSR) for his assistance and participation in evaluating the results." Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN UkrSSR (Institute of Physical Chemistry, AN UkrSSR); Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (Kiev Branch, All-Union Scientific Research Institute of Synthetic Fibers)

SUBMITTED: 22Jun64 ENCL: 00 SUB CODE: MT, MP

NO REF SOV: 002 OTHER: 003

ACCESSION NR: AP4033700 S/0073/64/030/004/0376/0384

AUTHOR: Fomenko, A. S.; Abramova, T. M.; Dar'yeva, E. P.; Galina, A. A.; Furman, Ye. G.

TITLE: Oxidative destruction of polyamides. II. Participation of free radicals in the radiolysis and radiation oxidation of polycaprolactam.

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 4, 1964, 376-384

TOPIC TAGS: polyamide, polycaprolactam, caprolactam oligomer, oxidation, free radical formation, radiolysis, radiation oxidation, EPR spectra, C N bond rupture, hydroperoxide formation, IR spectra, antioxidant, viscosity, cross linkage

ABSTRACT: The free radicals formed by irradiation of polycaprolactam with cobalt-60, their function in the radiation oxidation of polycaprolactam, and the inhibiting action of an antioxidant were investigated. The electron paramagnetic resonance spectra of polycaprolactam and caprolactam oligomers irradiated with cobalt-60, and the effects of temperature, radiation dose and presence of oxygen on the changes in these spectra are described. The gaseous products of polycaprolactam radiolysis in vacuum are hydrogen and carbon monoxide in a 3:1 ratio and about

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ACCESSION NR: AP4033700

3% $CO_2$. The amount of terminal amino groups almost doubled on irradiation; with a 22 mrad dose this corresponded to the rupture of 1% of the C-N bonds in the polymer. The viscosity of the polymer also changes on irradiation--with 8 mrad irradiation the viscosity decreased during the first 30 hours, then increased, apparently due to the formation of cross-linked structures. The accumulation of hydroperoxide in polycaprolactam on gamma-irradiation in oxygen, the effect of radiation dose, the changes in terminal amino and carboxyl groups and the viscosity of the polymer were examined. $H_2$:CO ratio in these products was 2:1; terminal $NH_2$ and COOH groups increased at doses below 15 mrad and decreased above that. These data agree with changes in the IR spectra of the irradiated polycaprolactam. It is concluded that the $RO_2$ radical formed by radiation oxidation is converted to the hydroperoxide and carbonyl-containing compounds by a parallel route. Addition of 0.5-3% antioxidant di-$\beta$-naphthyl-p-phenylenediamine to the polymer does not affect the form of the EPR spectra or concentration of free radicals formed by gamma-irradiation; but this additive significantly lowers the amount of hydroperoxide and carbonyl-containing compounds formed by radiation oxidation. "N. S. Oleynik and M. T. Kozhura took part in the experimental work."... "The authors thank AN USSR academician A. I. Brodsko for help in the work and participation in its evaluation, and also

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ACCESSION NR: AP4033700

coworkers in the electron paramagnetic resonance laboratory for obtaining EPR spectra and help in evaluating the spectral data." Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN USSR, (Institute of Physical Chemistry);Kiyevskiy filial Vsesoyuznogo NII iskusstvennogo volokna, (Kiev Branch of the All Union NII of Synthetic Fibers)

SUBMITTED: 15May63 ENCL: 00

SUB CODE: OC, NP. NO REF SOV: 010 OTHER: 007

Card 3/3

ACCESSION NR: AP4040955 S/0020/64/156/005/1147/1149

AUTHOR: Brodskiy, A. I. (Corresponding member AN SSSR); Fomenko, A. S.; Abramova, T. M.; Furman, Ye. G. Dar'yeva, E. P.; Kukhtenko, I. I.; Galina, A. A.

TITLE: EPR spectra of radicals formed during gamma irradiation of polyamides

SOURCE: AN SSSR. Doklady*, v. 156, no. 5, 1964, 1147-1149

TOPIC TAGS: electron paramagnetic resonance, EPR spectra, EPR radical spectra, polyamide, polyamide gamma irradiation, hexamethylene adipamide, poly-omega-undecane amide, deuterium, caproamide

ABSTRACT: The authors conducted this analysis because the literary data pertaining to the structure of radicals formed under the effects of irradiation are contradictory. The EPR spectra of poly-ε-caproamide were recorded. The irradiation and EPR spectra recording was taken at room temperature. The EPR spectrum of the gamma-irradiated poly-ε-caproamide is an incompletely resolved quintet 1 : 2 : 2 : 2 : 1 with an average width of 74 oersteds between the extreme maxima. The cleavage between the extreme pairs of lines 1-2 and 4-5 is 21 oersteds. This is 1.55 times less than the cleavage between the lines 2-4. This spectrum corresponds to a $-OH\ -CO-NH-\dot{C}H-CH_2-$ radical in which the unpaired

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ACCESSION NR: AP4040955

electron interacts with one α-hydrogen and two equivalent β-hydrogens. The -CO-CD$_2$-(CH$_2$)$_3$-CD$_2$-NH- sample with deuterium in the two CH$_2$ groups neighboring the carbonyl and NH groups yields a fully resolved 1 : 2 : 1 triplet with a splitting of $a_\beta$ = 28 oersteds, and with a general width of 56 oersteds between the extreme maxima. This spectrum corresponds to a -CD$_2$-CO-NH-CD-CH$_2$- radical. The spectra of irradiated polyamides containing 8 and 10 CH$_2$ groups in the monomer unit show incompletely split 1 : 3 : 3 : 1 quadruplets with identical 21 oersted cleavages. The spectrum for an irradiated completely-crystalline hexamethylene adipamide COOH-(CH$_2$)$_4$-CO-NH-(CH$_2$)$_6$-NH$_2$ is a satisfactorily resolved 1 : 2 : 2 : 2 : 1 quintet with a general width of 84 oersteds between the extreme maxima and with $a_\beta$ = 21 oersteds and $a_\alpha/a_\beta$ = 2.0. It corresponds to a radical in which the hydrogen splits off from the CH$_2$ group in the β-position to the NH, just as in the poly-ε-caproamide radical. The irradiated ε-caprolactam monomer produces a poorly resolved spectrum. When deuterium is introduced into the methylene groups of the nondeuterated and deuterated caprolactam in the NH group a sharp change in the spectrum shape can be observed. The spectrum of the CO-CD$_2$(CH$_2$)$_3$CD$_2$ND sample is not as well resolved probably on account of the participation of the NH group hydrogen in the cleavage. This spectrum can evidently also be examined as a quadruplet with intensity ratio of 1 : 1 : 1 : 1 . Orig. art. has: 3 figures.

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ACCESSION NR: AP4040955

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo Akademii nauk UkrSSR (Institute of Physical Chemistry, Academy of Sciences Ukr SSR)

SUBMITTED: 09Mar64

ENCL: 00

SUB CODE: MP, OC

NO REF SOV: 005

OTHER: 008

Card 3/3

(j)/EWA(h)/EWP(c)/EWT(m)-2/EWP(j)/EWA(l)/EWA(h) Pc-4/Pr-4/

S/0190/65/007/001/0116/0122

[illegible] A. I.; [illegible] A. S.; Abramova, T. M.; [illegible]

[illegible] G.; [illegible], L. A.; [illegible]

[illegible] radiation oxidation of poly-ε-caproamide

Vysokomolekulyarnyye soyedineniya, v. 7, no. 1, 1965, 116-122

TOPIC TAGS: [illegible], radiation oxidation, IR analysis

ABSTRACT: [illegible] the radicals which occur in poly-ε-caproamide (PKA) [illegible] products of radiolysis and radiation oxidation, [illegible] changes in viscosity and content of amino end-[illegible] hydroperoxides during radiation of PKA in oxygen [illegible] and olivers of PKA obtained by polymerization of ε-[illegible]O as initiator were used. The spectra of electron [illegible] (ESR) showed that the radical —CH₂CONHĊHCH₂— was [illegible] et al, Dokl. AN SSSR, 155, 1147, 1964). Chromatographic [illegible] products of radiolysis in vacuum and radiation oxidation [illegible] (with less than 3% $CO_2$) separation shown in Fig. 1

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L 28715-65

ACCESSION NR: AP5003033

9

... the Enclosure. The IR spectrum of a PMA film (see Fig. 2 on the Enclosure) ... well with previous results of N. D. Slovetskaya (Dokl. AN SSSR, 127, 831, ...). The effects of diffusion rate on viscosity are shown in ..., 3 on the Enclosure, the formation of $I_2$ and COOH end groups is given in ..., 4 on the Enclosure, and the formation of peroxides is shown in Fig. 5 on the ...closure. Orig. art. has: 6 figures.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN UkrSSR (Physical Chemistry Institute, AN Ukr SSR); Kievskiy filial Vsesoyuznogo nauchno- ... (Kiev Section of the All- ... of Synthetic ...)

SUBMITTED: 20... ENCL: 05 SUB CODE: GC

NO REF SOV: 00... OTHER: 000

Card 2/1

1C

L 24491-66 EPF(n)-2/EWT(m)/EWP(j)/T/EWA(h)/EWA(l) GG/RM/WW/JW
ACC NR: AP6006980 (A) SOURCE CODE: UR/0190/66/008/002/0261/0266

AUTHORS: Fomenko, A. S.; Abramova, T. M.; Dar"yeva, E. P.; Galina, A. A.; Furman, Ye. G.

ORG: Institute of Physical Chemistry im. L. V. Pisarzhevskiy (Institut fizicheskoy khimii)

TITLE: Mechanism of action of di-β-naphthyl-p-phenylenediamine during radiation oxidation of polycaproamide

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 261-266

TOPIC TAGS: polyamide, free radical, oxidation kinetics

ABSTRACT: The effect of di-β-naphthyl-p-phenylenediamine (I) upon the kinetics of accumulation of free radicals formed during the process of radiation-induced decomposition of polycaproamide (II) was investigated, and the yield of gaseous and oxygen-containing products of radiation-induced oxidation of the polymer was determined. The changes of the content of terminal $NH_2$ groups, viscosity, and IR spectra occurring in II stabilized with I during the radiation-induced oxidation were also studied. The methods, involving ESR, chromatographic, chemical, and IR

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UDC: 678.01:54+678.675

spectroscopic studies, were previously described by A. S. Fomenko, T. M. Abramova, E. P. Dar"yeva, A. A. Galina, and Ye. G. Furman (Ukr. khimich. zh., 30, 376, 1964). It was established that I has no effect upon breaking of the C-H, C-N, and -C-CO- bonds during radiolysis of II, but does affect C-N and C-CO bonds during radiation oxidation of II. The amount of peroxy carbonyl and carboxyl compounds formed during radiation oxidation of II stabilized with I is considerably lowered as compared with the untreated II. A possible mechanism for the inhibiting action of I is offered. Orig. art. has: 1 table, 6 figures, and 4 equations.

SUB CODE: 07, 11/ SUBM DATE: 05Mar65/ ORIG REF: 007

L 35343-66 EWT(m)/EWP(j)/T IJP(c) JWD/GG/RM

ACC NR: AP6012725 (A) SOURCE CODE: UR/0190/66/008/004/0770/0770

AUTHOR: Fomenko, A. S.; Krasnov, Ye. P.; Abramova, T. M.; Dar'yeva, E. P.; Furman, Ye. G.; Galina, A. A..

ORG: none

TITLE: Radiation resistance of isomeric aromatic polyamides

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 4, 1966, 770

TOPIC TAGS: radiation stability, aromatic polyamide, aliphatic polyamide, gamma irradiation, radiation resistance

ABSTRACT: The integral dose required for the accumulation of $1.10^{14}$ radicals in γ-irradiation of aromatic polyamides is shown to be one order higher than for aliphatic polyamides. The radiation yields of hydrogen during polymer irradiation are two orders lower than for aliphatic polyamides. There were no changes in IR-spectra and thermomechanical properties of samples γ-irradiated in vacuo and in the presence of oxygen. This proves the high radiation stability of aromatic polyamides. [Based on author's abstract.] [AM]

SUB CODE: 20, 11/ SUBM DATE: 22Nov65/ ORIG REF: 002

Card 1/1 UDC: 678.01:54+678.675

L 40099-66 EWT(m)/EWP(j)/T IJP(c) GG/RM

ACC NR: AP6019661 (A) SOURCE CODE: UR/0073/66/032/006/0549/0554

AUTHOR: Brodskiy, A. I.; Fomenko, A. S.; Dar'yeva, E. P.; Abramova, T. M.; Galina, A. A.; Furman, Ye. G.

ORG: Institute of Physical Chemistry im. L. V. Pisarzhevskiy, AN UkrSSR (Institut fizicheskoy khimii AN UkrSSR)

TITLE: Gas evolution during the radiative-oxidative degradation of poly-ε-caproamide

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 6, 1966, 549-554

TOPIC TAGS: polyamide, oxidative degradation, hydrogen, carbon monoxide, gamma radiation, radiation effect

ABSTRACT: Chromatographic analysis was used to find the radiation yields of hydrogen and carbon monoxide, the main gaseous products of the radiolysis and radiative oxidation of poly-ε-caproamide. $G_{H_2}$ is about 1 mole/100 eV for both processes, and does not change as the dose rate increases from 0.4 to 5.0 x $10^{18}$ eV/g min. $G_{CO}$ is equal to 0.3 mole/100 eV for radiolysis and to 0.6 mole/100 eV for radiative oxidation, and rises to 0.9 mole/100 eV as the dose rate increases from 0.4 to 5.0 x $10^{18}$ eV/g min. It was found that the combined action of gamma radiation and increased temperature approximately doubles the values of $G_{H_2}$ and $G_{CO}$ in both the radiolysis and radiative oxidation of poly-ε-caproamide in the case of a low dose rate of gamma radiation, and that the effect of this combined action on $G_{H_2}$ and $G_{CO}$ diminishes with increasing

Card 1/2 UDC: 678.01:54+678.675

L 40099-66

ACC NR: AP6019661

dose rate. It is shown that the stabilization of poly-$\epsilon$-caproamide by the addition of the antioxidant di-$\beta$-naphthyl-p-phenylenediamine does not change $G_{H_2}$ during radiolysis and radiative oxidation, but markedly reduces the amount of carbon monoxide formed during radiative oxidation. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: 31Jan64/ ORIG REF: 006

Card 2/2

FURMAN, Ye.I.

DEMESHKO, L.G., nauchnyy sotrudnik; FURMAN, Ye.I., nauchnyy sotrudnik; LOYGZAL'TS, A.I., nauchnyy sotrudnik; TIMOSHPOL'SKIY, M.N., redaktor; ANDREYEV, S.P., tekhnicheskiy redaktor.

[Time norms for the repair of crane equipment] Normy vremeni na remont kranovogo oborudovaniia. Khar'kov, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Pt.2 [Special cranes for steelsmelting and rolling shops; stripping cranes, pit cranes and claw cranes] Spetsial'nye krany staleplavil'nykh i prokatnykh tsekhov; kran dlia razdevaniia slitkov, kolodtsevyi kran i kran s lapami. 1954. 311 p. (MIRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii. (Cranes, derricks, etc.)

S/125/61/000/007/012/013
D040/D113

AUTHORS: Furman, Ye.I. and Khalippa, M.

TITLE: The First [Soviet] Central Asian scientific research conference on welding

PERIODICAL: Avtomaticheskaya svarka, no. 7, 1961, 92-95

TEXT: The I Sredneaziatskaya nauchno-tekhnicheskaya konferentsiya po svarke (First [Soviet] Central Asian Scientific Research Conference on Welding) organized by the GNTK Soveta Ministrov Uzbekskoy SSR (GNTK of the Council of Ministers of the Uzbekskaya SSR), Institut elektrosvarki im. Ye.O.Patona (Electric Welding Institute im. Ye.O. Paton), Sovnarkhoz Uzbekskoy SSR (Sovnarkhoz of the Uzbekskaya SSR), and the GNTK of the Councils of Ministers of the Kirgizskaya SSR, Tadzhikskaya SSR and Turkmenskaya SSR, was held from March 15-18, 1961, in Tashkent. The conference was attended by 500 delegates including welding specialists from Soviet scientific research institutes. Sixteen reports were heard, 15 are listed below together with a brief summary of the subjects discussed: (1) B.Ye.Paton, Academician AS UkrSSR, and Director of the Electric Welding Institute im. Ye.O.Paton reported on the increase in the mechanization level of welding in the USSR between 1958 and 1960, due to extensive use of automatic submerged arc welding, electro-gas welding etc.

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The First [Soviet] Central Asian ....

He also spoke of the application of new welding methods, such as electron beam, plasma arc, ultrasonic, friction, cold welding etc.; (2) T.G. Kagramanov, Deputy Chairman of the GNTK of the Council of Ministers of the Uzbekskaya SSR, reported on the introduction of welding technique in industry and stated that the volume of welding work carried out in the machine industry of the Uzbekskaya SSR in 1958 is to be more than doubled by 1965 and he also stated that a welding laboratory had been organized in 1960 at the Gosudarstvennoye konstruktorsko-tekhnologicheskoye byuro sovnarkhoza Uzbekskoy SSR (State Design and Technological Office of the Sovnarkhoz of the Uzbekskaya SSR); (3) V.Ya. Timoshenko, Chairman of the GNTK of the Council of Ministers of the Kirgizskaya SSR, outlined the present state and prospects of development of welding in the republic and stated that the annual volume of welded structures had to reach 51,000 tons by 1965. It was also reported that centralized production of large welded structures had been organized at the "Frunzemash" Plant and that repair plants were using the vibration resistance surfacing method; (4) N.R. Rakhimov, Chairman of the GNTK of the Council of Ministers of the Tadzhikskaya SSR, reported that the level of welding mechanization in the republic at the present time is 20% and that it has to reach 60% by 1965. The following points were also mentioned: A semiautomatic line for welding reinforcement is in operation at the Stalinabadskiy zavod zhelezobetonnykh konstruktsiy (Stalinabad Reinforced Concrete Structures Plant);

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automobile repair plants are using accumulator welding for surfacing worn parts; cold welding of aluminum and copper electric wire is being used; (5) B.A. Chernyshev, Chairman of the GNTK of the Council of Ministers, Turkmenskaya SSR, said that the mechanization of welding in the metalworking industry in the republic has to be increased from 4% in 1960 to 45% in 1965; (6) D.A.Dudko, Candidate of Technical Sciences, of the Electric Welding Institute im. Ye.O.Paton reported on the development of Soviet welding processes and mentioned that the welding speed in the submerged arc process can be increased to 200 m/hr or more; (7) I.I.Frumin, Doctor of Technical Sciences, of the Electric Welding Institute im. Ye.O.Paton discussed various methods of mechanical surfacing and mentioned the importance of the application of tape electrode, powder wire and tape, and vibro-arc surfacing; (8) A.P. Sushchenko, Candidate of Technical Sciences, of the Tashkentskiy institut inhenerov zheleznodorozhnogo transporta (Tashkent Institute of Railroad Transportation Engineers) reported on "Automatic surfacing of hard alloys on workpieces of variable cross-section in serial production", and mentioned an automatic multi-electrode submerged -arc process that has been used for wedge-shaped parts; (9) V.I. Novikov, Candidate of Technical Sciences, of the Electric Welding Institute im. Ye.O. Paton) discussed the fundamental principles in the design and planning of welded structures; (10) B.M.Aleksandrov, Engineer, spoke on the rate of mechanization of welding processes; (11) N.I.Kushnir, Engineer, reported on the practical applica-

tion of cast iron welding and experience in selecting methods of repairing cast iron parts. He also described methods of welding-up flaws with copper-steel rods, ЦЧ-4 (TsCh-4) electrodes etc; (12) S.M.Gurevich, Candidate of Technical Sciences, of the Electric Welding Institute im. Ye.O.Paton described the basic methods for welding nonferrous metals and their alloys, and the latest welding equipment used for this purpose; (13) N.Ya.Kochanovskiy, Candidate of Technical Sciences (VNIIESO), described modern welding equipment developed at VNIIESO; (14) A.I.Chvertko, Candidate of Technical Sciences, reported on machine welding and surfacing equipment developed at the Electric Welding Institute im. Ye.O.Paton; (15) A.N.Shashkov, Candidate of Technical Sciences, Director of VNIIAvtogen, reported on "Modern development of the technology of gas-flame treatment of metals". The decisions of the conference concerned the further development of the welding industry, the mechanization of labor-consuming work and the comprehensive mechanization and automation of technological processes at enterprises and construction sites in Soviet Central Asia. At an exhibition of achievements in welding technique organized for the Conference, exhibits of the "Uzbekkhimmash" Plant, including a unit for welding annular seams on large workpieces, and a modernized ТС-17 Му (TS-17Mu) Welding "Tractor" for annular seams, were shown. Engineers V.V.Bychkov and K.V.Smol'skiy of "Uzbekkhimmash" are mentioned in connection with these developments. The Tashkentskiy ekskavatornyy zavod (Tashkent Excavator Plant) demonstrated flexible rod de-

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S/125/61/000/007/012/013
D040/D113

The First Soviet Central Asian ....

signed to increase the range of operation of semiautomatic devices and the "Tashsel'mash" Plant exhibited an МТП-75 (MTP-75) spot welder with a throttle ficture for welding sheet steel without removing scale. There are 3 figures.

Card 5/5

FURMAN, Ye.P.

✓ Muscovite from pegmatites of Sluch River valley. E. P. Furman (Lvov Univ.). *Mineralog. Sbornik, L'vov. Geol.* Obshchestva 4, 255-68 (1950).—The muscovite was formed by metasomatic processes, mainly at the expense of feldspars. Chem. analyses are given. Marie Siegrist

FURMAN, YE. P.

"Mineralogy of the Phosphorite Deposits of Pridnestrov'ye." Cand Geol-Min Sci, L'vov State U, L'vov, 1954. (RZhGeol, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

FURMAN, Ye.P.

Mineralogy of phosphorite deposits in the Dniester Valley. Vop. min. osad. obr. 1:58-116 '54. (MIRA 11:4)
(Dniester Valley--Phosphorites)

FURMAN, Ye.S., inzh.

How to achieve better organization of the centralized pickup and delivery of freight. Zhel.dor.transp. 43 no.4:55-58 Ap '61. (MIRA 14:3)

(Railroads—Freight)

POVOROZHENKO, Vladimir Vasil'yevich; SITNIK, Mikhail Danilovich; FURMAN, Yevgeniy Sergeyevich; SHAFIRKIN, B.I., inzh., retsenzent; FERAPONTOV, G.V., inzh., red.; VOROB'YEVA, L.V., tekhn. red.

[Common carrier and freight forwarding services on railroads] Transportno-ekspeditsionnoe obsluzhivanie na zheleznykh dorogakh. Moskva, Transzheldorizdat, 1962. 146 p. (MIRA 16:1)

(Freight and freightage)

FURMAN, Ye.S., inzh.

Interaction of railroad and automotive transportation in case of centralized freight delivery. Trudy MIIT no.146:180-207 '62. (MIRA 15:12)

(Freight and freightage)

DEM'YANKOV, N.V., kand. tekhn. nauk; FURMAN, Ye.S., kand. tekhn. nauk

Ice molds made from glass plastics. Zhel. dor. transp. 47 no.3: 85 Mr '65. (MIRA 18:5)

FURMAN, Yu.O.

Repeated ulcerous perforations of the stomach and duodenum.
Sov. med. 25 no.10:115 O '61. (MIRA 15:1)

1. Iz khirurgicheskogo otdeleniya (zav. Yu.O.Furman) 1-y gorodskoy bol'nitsy Nizhnego Tagila (glavnyy vrach - zasluzhennyy vrach RSFSR N.A.Farberov).
(PEPTIC ULCER)

FURMAN, Yu.O. (Nizhniy Tagil)

Treatment of stenocardia with bilateral ligature of the intrnal thoracic arteries. Kaz.med. zhur. no.1:64-65 Ja-F'63.(MIRA 16:8)
(ANGINA PECTORIS)

FURMAN, Yu.O.

Remote results of suturing perforated ulcers of the stomach and duodenum. Kaz.med. zhur. no.3:76-77 My-Je '63.
(MIRA 16:9)

1. 1-ye khirurgicheskoye otdeleniye (zav. - Yu.O.Furman) 1-y gorodskoy bal'nitsy Nizhnego Tagila (glavnyy vrach - N.A.Farberov).

(PEPTIC ULCER) (SUTURES)

FURMAN, Yu.O.

Resorption of an embolus of the aortic bifurcation during the anticoagulant treatment. Kaz. med. zhur. 4:52-53 Jl-Ag'63 (MIRA 17:2)

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1678. **Determination of peroxides in fats by the titanium method.** C. Furmanek and K. Monikowski (*Roczn. Pakstw. Zakł. Hig.*, 1953, **4**, 447–457; *Referativnyĭ Zh., Khim.*, 1954, Abstr. No. 38,239).—It is shown that $Ti^{IV}$ reacts quant. to give a yellow colour only with those organic peroxides that can be hydrolysed to give $H_2O_2$ as one of the products. The iodimetric method of Drozdov and Starikova (*Myasnaya Industriya, SSSR*, 1951, [3], 52) gives satisfactory results; results obtained by the Lea method are 2 to 8 per cent. higher. E. HAYES

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Results and experience gained in rapidity building in the Muranów district during 1949. Theoretical principles of the continuous-flow building system. Classical continuous-flow building systems as adapted to conditions prevailing in Poland. Principles on which the Muranów continuous-flow system was based during 1950 Organizational structure. An analysis of the results confirms that the organization of the continuous-flow building system needs to be properly worked out. Importance of preliminary studies. Role of the Technical Building Organization section, and the work it has already performed. Analysis of harmonograms. Analysis of organizational diagrams

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PA 7/49T76

USSR/Mining Equipment
Conveyers

Aug 48

"First Reported Results of the Performance of STR-30 and STP-30 Scraper Conveyer for Automatic Coal Loading at Donbass Mines," V. G. Yatshikh, Cand Tech Sci, N. I. Furmanenko, A. Ye. Demchenko, Engineers, Bureau for Mech of DonUGI, 1½ pp

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Describes operation of conveyers and method of use. Lists advantages and disadvantages.

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20740. Yatskikh, B. G., Furmanenko, N. I., i Demchenko, A. Ya. Pervyye rezul'taty primeneniya moshchnykh skrebkovykh konveyerov SPR-30 dlya samotaveiki uglya. Raboty DONUGI (Donetskii nauch.-issled. ugol'nyy in-T), sb. 5, 1949, s. 37-41

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